

Aditya Tadimeti

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EDUCATION

Stanford University

B.S. in Computer Science: Artificial Intelligence Track

M.S. in Computer Science: Artificial Intelligence Track

Stanford, CA

June 2025

Sept 2025

WORK EXPERIENCE

Research Engineer @ Liquid AI | PyTorch, Python

- Training efficient foundation models.

June 2025 —

Research Engineer Intern @ Adobe Firefly | PyTorch, Python

- Trained text-to-image, multimodal reward models. Fine-tuned diffusion models via RLHF.

June 2024 — September 2024

Intern of Technical Staff @ Cohere | Python, PyTorch

- Worked on model fine-tuning, data ingestion, evaluation metrics, and pretraining to improve reasoning in LLMs.

January 2024 — April 2024

SWE Intern @ Amazon | JavaScript, React, Java, AWS

- Developed end-to-end full-stack service to automate supply-chain network graph cost updates.

June 2023 — September 2023

SWE Intern @ Oracle OCI | Java, Docker, JavaScript

- Built and deployed full-stack, internal debugging tool to resolve customer networking issues.

June 2022 — September 2022

PUBLICATIONS

LFM2 Technical Report

... **Aditya Tadimeti***, et al.

33 authors in alphabetical order

arXiv preprint, 2025

November 2025

Simple, Scalable Reasoning via Iterated Summarization

Vivek Vajipey*, **Aditya Tadimeti***, Justin Shen*, Ben Prystawski, Michael Y. Li, Noah Goodman

* denotes equal contribution

ICML 2025 Workshop on Long Context Foundation Models

ICML 2025 Workshop on AI for Math

July 2025

ORGANIZATIONS

Stanford Computation & Cognition Lab | Adv Prof. Noah Goodman

- Designed novel compression algorithms to optimize LLM reasoning performance at test-time (ICML '25).

April 2024 — June 2025

Stanford SNAP Group | Adv Prof. Jure Leskovec.

- Pretrained 100M+ parameter protein foundation models as an ML systems engineer on H100 cluster.

September 2024 — December 2024

Stanford NLP Group | NLP Researcher

- Researched the capability of LLMs to leverage linguistic information for prediction.

February 2023 — March 2024

Stanford CS Department | Senior Section Leader

- TA for CS 106A/B (Python/C++).

April 2022 — December 2024

SELECTED PROJECTS

Language Model from Scratch | PyTorch

- Designed, implemented, and aligned Transformer language models from scratch, using only PyTorch primitives. Included custom tokenizers, model architecture, optimizers, Triton kernels, robust data processing, systems profiling, and RLHF methods like DPO and GRPO for reasoning.

Spring 2025

AI Agent Projects | Python, React, JavaScript

- Implemented arXiv Deep Research Discord bot that responds to research queries by traversing arXiv, multimodal AI-powered tutor that ingests text, videos, and pdfs, and AI-powered health advisor.

2024 - 2025

Quantized, Pruned, Accelerated, and Parallelized GPT-2 | PyTorch, C++, OpenMP, ISPC

- Implemented 8-bit quantized inference, iterative magnitude based pruning and speculative decoding for GPT-2.
- Optimized Attention via blocking, fusing, vectorization, and multithreading; implemented FlashAttention on NanoGPT.

Fall 2023

COURSEWORK

ML & AI: Building Language Models from Scratch, Machine Learning, NLP, Computer Vision, ML w/ Human Preferences

Math & Statistics: Linear Algebra, Matrix Theory, Multivariable Calculus, Probability, Statistical Inference, Info. Theory

Complexity Theory: Data Structures, Algorithms, Mathematical Computing

Systems & Security: Operating Systems, Networking, Parallel Computing, Systems for Machine Learning, Web Applications

TECHNICAL SKILLS

Languages / Frameworks: Python, PyTorch, C++, CUDA, React, C, Java, R, JavaScript, HTML/CSS